FIGURE 1A

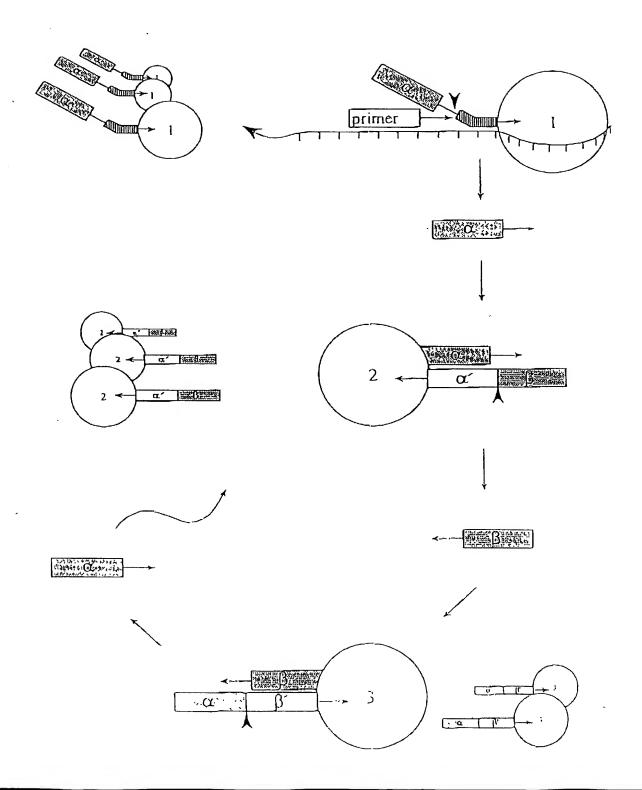
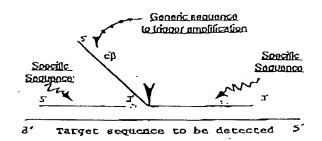
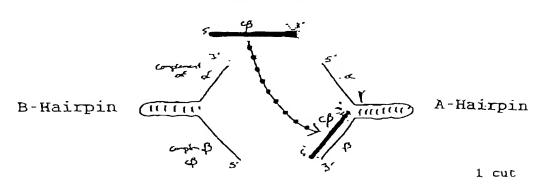


FIGURE 1B

PART ONE: TRIGGER REACTION



PART TWO: DETECTION REACTION



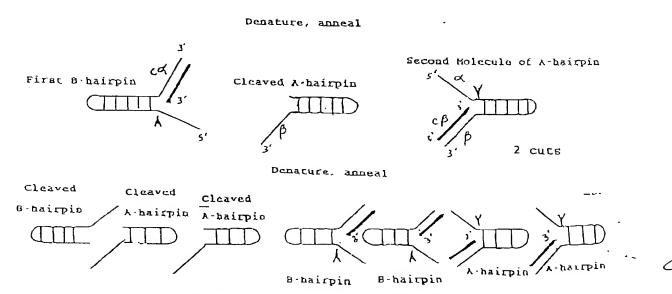


FIGURE 2

0	0	140 137 140	207 204 210	277 274 280	347 344 350
o c c o o o t c o t o o t o o d o o o o o d o o o o o o	67 67 67 67 67 67 67 67 67 67 67 67 67 6	CA	Page Collect CAA be determined by the control of th		CC1 CG CCC1 CA1 CAA GG A GC1 GG A CG1 CG CG CG1 1 CC CG CG CG 1 CG A GG 1 CC CC CG
ואסטאור (SEQ 10 NO.7)	(SEQ ID NO:1) (SEQ IO NO:2) (SEQ IO NO:3)				
אוומטפווו	OKAPTAO CHAPTR CHAPTR	ONAPTAO CAMPTR CAMPTR CAMPTR	ALAJORITY ORAPTAO CNAPTH CNAPTH	MAJORITY OLIGETAD CHAPTA CHAPTA	INAJORITY DINAFTAO CRAFTR CRAFTR

FIGURE 2 (cont'd)

	417 414 420		484 484 490		\$\$7 \$\$4 \$\$0		627 824 630	•	634 631 700
CGAGGCGGACGACGTXGTGGCGACCGTGGGGAAGAAGGGGAAAAAGGAGGGGGGTACGAGGTGGGGGGATGGT		A COOCCOA COOCCA GOT OF A COA GOT TO COA COCCAT COCCOT COT COA COOCCAGO GOT A COT CA	. r	I CACCCCCCCT GCCTTT GCCACAGTACOCCT GACCCCCOACCACT GCGT GGACTACCCGGGCCCT GGC	A	O C G G G G C C C C C C C C C C C C C C	C GAG	GACT COCCEACCT COAAAACCT CCT CAACAT CCT C GAC C C G G T CAA C C C C C C · · · C X T C C C C C A G A G A	66IATGATG
(SEQ ID NO:7)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)								
MA 108 ITY	DRAPTAD CNAPTR CNAPTH	HAJORITY	ONAPTAD CHAPTR CHAPTR	INC JOSETT	ONAPTAO DYAPTEL CYAPTIH	MAJORITY	ONAPTAD CNAPTA CNAPTA	MAJORITY	ONAPTRO CHAPITE CHAPITH

-4

FIGURE 2 (cont'd)

	764 761 770		834 83) 840		.904 901 910		974 971 980		1044 1041 1050
T CCA G G C C C A T G G A X D A C C T G A X D C T C T C D T G D D A G C T T C C C A G G T G C C G A C C T G C C C C C C C A C C A C C T G C C C C C C C C A C C C C A C C C C A C C C C A C C C C A C		O CI G CA CII C C C C C A A G X C G C C C C C C C C C C C C C C C C	AA	GCCAGCCI CCI CCACBAGII CGGCCI CCI GCAGGGCGCGCAAGGCCCT GGAGGAGGAGGCCCCCCT GGCGCCCCCC	A	CCCAACOGCCC77CC7GOGCT77G7CCT71CCCCCCCCGAGCCCATGTGGGCCCGAOC77C1GGCCCCTCCC		COCCOCCAGO GA GO G C C C C C C C C C C C C C C C C C	1. GG, . GT
MAJORITY (SEQ 10 NO:7)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ IO NO:3)								
MAJORITY	ONAPTAD CNAPTR CNAPTR	איטרפינוד	DHAPTAD CHAPTA CHAPTA	MUDRITY	ONAPTAD CNAPTR CNAPTTH	MAJORITY	ONOPTED CINETTA TITOLOGY	KAUGRETY	ONAPTAD CHAPTR CNAPTR

FIGURE 2 (cont'd)

1120	1184 1181 1190	1254 1251 1260	1324 1321 1330	1394 1391 1400.
обообхетеетееселя в в в в в в в в в в в в в в в в в в в				
HAJORITY (SEG 10 NO:7) OHAPTIAD (SEG 10 NO:1) OHAPTIA (SEG 10 NO:2) DHAPTIA (SEG 10 NO:3)				
	SKATIA OKATIA CHAMIR CHAMIR	MAJORITY GNAPTAD GNAPTR	AKAJORITY ONAPTAO CRUSTITA	CHANDRITH CHANTER CHANTER

FIGURE 2 (conl'd)

	1464 1481 1020		1534 1531 1540		1604 1601 1610	-	1680	1744	1750
TO TO TO THE TOWN OF THE TOWN			. et .			C G G G G G G C C C C C C C C C C C C C		CCCC; CCACACCCCCTT CAACCACCCCCACGCCACGCCACGCC	
	DRAPTAD (SEQ 10 NO:1)	(SEQ ID NO:3)							
	_	CAMPITA CAMPITA	HAJCHITY DRAPTAD	HELDEN OF THE PERSON OF THE PE	HAJORITY CHAPTA CHAPTR	HINDON OF STREET	OKAPIAO DYAPITA	CR NOTTH HAJORITY	ONAPTRO CNAPTR CNAPTR

FIGURE 2 (cont'd)

	18.14 18.11 18.2		1884 1881 1890		1954 1951 1960		202 202) 2030		2094 2031 2100	
A G A A C A I C C C C C C C C C C C C C C C	6	G11 G01 G G G C C I G G A C C I A T A G G C A G A T A G A G C 1 C C G G G T C C 1 G G C C C A C C I C C G G G G G G G A G G A A C C I C	A	A 1 C C C C C C T I C C A C C C C C C C C C C C C C C C C	6 5 6 6 6 6 6 6	A O G C C O T C C A C C C C C C C C C C C C C C C C	А. С.С	CCACCCCCICT CCCAGGAGGTT CCCCTACGAGGAGGGGGGT GGCGTT CATT GAGCGGT ACTT CCAG	TA. 6	
HALMRTY (SEO ID NO:7)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ IO NO:3)									
TJ8DI AH	DRAPTA STEPANO	MAJORITY	CAPTANG FIFTH) Library	ONAPTAD CNAPTE CNAPTE	KAURIT	DNAPTAD COMPTER KITTANCO	MAJORET	DHAPTAD CHAPTEL CHAPTEH	

FIGURE 2 (cont'd)

2184 ⁻ 2181 217	2234	2240	2304 2301 2310		2380	2444 2441 2450
ACCTICCCCAAGGTGCGCGCGTGCATTGAGAGCCCTGGAGGGGGGGG	CCCT CTI CGCCCCCCCCCCTACCTCCCCGACCTCAACCCCCCCCCTCAACACCCCCCCC	AA. AA. AA		TICCCCCCCCTXCAGOAAATGGGGGGGGGATGCTCCTXCAGGTCCACGACGACGTGGTCCTCCAGGCCCCTCCAGGCCCCTCCTCCAGGCCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT		рефисьсов в станов в
OHAPTAD (SEQ ID NO:7) CHAPTAD (SEQ IO NO:1) CHAPTA (SEQ IO NO:2)	HALORITY	ዐ <i>ነላልም</i> ያልዐ ር <mark>୯</mark> ሪውያቸች ር <mark>୯</mark> ሴዎኖፐች	KAJORITY ONAVTAD CYAMTR	נאשיחדא אבטטאורץ	ዐዣልዋ] ልዐ ርሊላዶቻገች ርጉረልዎገገዝ	MAJORITY DHAPTAD CNAPTR CNAPTR

2499 2496 2505

FIGURE 2 (cont'd)

JORITY	(SEQ 10 NO:7)	MAJORITY (SECTIONO:7) OCCCCIOGAGOIOGAGOIOGOGATOGOGOGÁGGACIOOCICIOGOCAAGGAGIAG	
2 E S	CHAPTAD (SEC 10 NO:1) CHAPTR (SEC 10 NO:2) CHAPTR (SEC 10 NO:3)	HO	

10

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-1:2			S S S S S S S S S S S S S S S S S S S			FWGSLENLIKHLOAVKP XXREKIXAHMEDIXLSXXISXVATDIPLEVDFAXRREPDREGIRAFLEHLER	FOX. 0 SL LO. 6. A. A BX. 0. H	GSILHEFOLLEXPKALEEAPWPPPEGAFVOFVLSAPEPWMAELLALAAAAXGAVHAAXOPLXGLAOLKEV	
MAJORITY (SEQ ID NO:8)	1AD PRO (SEQ 1D NO:4) IR PRO (SEQ 1D NO:5) ITH PRO (SEQ 10 NO:6)	MAJORITY	140 PS0 174 PS0 174 PS0	MAJORITY	FE PRO	HE THE SECOND SE	1.0 PR0 PR0 PR PF0	TH FBO	25 25 25 25 25 25 25 25 25 25 25 25 25 2

FIGURE 3 (cont'd)

	420	9	487 490	ς. 60	557		628 627 630		698 697 700
A GILA KOLAVLALRE GLOLX P G D D P MILAY LLOPS M 11 P E G V A R R Y G G E W I E D A G E R A L L S E R L F X K L X X		RLEGE	K	OLE RVLF DE L G L PAI GKT E KT GKRST SAAVLEAL REAHPI VEKI L GYRELT KLKMTYI OPL PXL V KPHI G	DR	RLHTRF HOTATATGRI SSSDPNI ONI PVRIPLGORI RRAFVAEEGWXLVALDYSOI ELRVI AKI SGOENL		I RUF DE GROT HT GT A SWAMF GV P PE A V D P L MB R A A K T I H F G V L Y G MS A H R L S D E L A I P Y E E A V A F I E R Y F D	S 6
LANGE OF STATE OF STA	140 PA (SEQ 10 NO:4) 174 PA (SEQ 10 NO:5) 174 PA (SEQ 10 NO:5)		. 140 PA 0 FR PR 0 FR PR 0	HAJORITY	780 77 780 780 780	YUS IOR CTY	62 PA 041 0유 명 68 년	11 H HV	140 PA 041 PA 04

FIGURE 3 (cont'd)

76.0	192	633	835 835
S F P K V R A W E K T V E E G R R R G Y V E T L F O R R R Y V P D L N A B V K S V R E A A E R M A F N M P V O O T A A D L M K L A M V K L		FPRL	E W. O. L D B B A. KA M. O G G G B B B G B
MAJORITY (SEQ 10 NO:8) SFPKVR	1A0 PRO (SEQ 10 NO:4) IFL PRO (SEQ 10 NO:5)		140 PS0 147 PS0 157 PS

đ



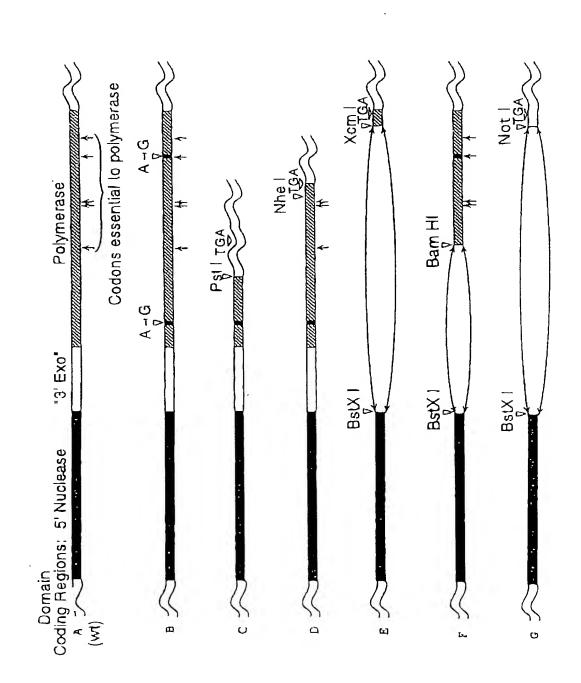
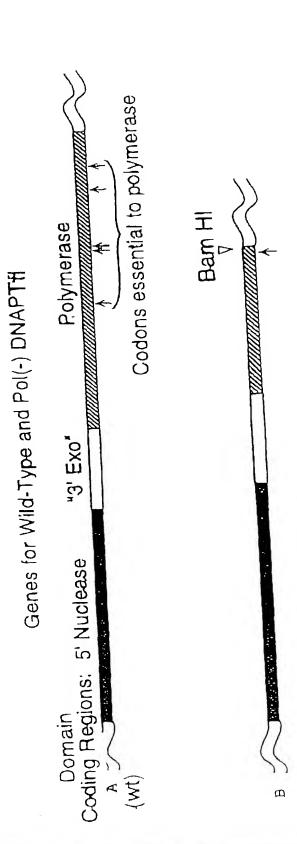
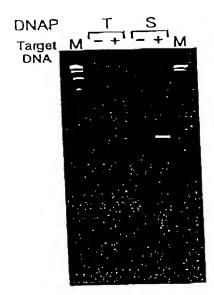


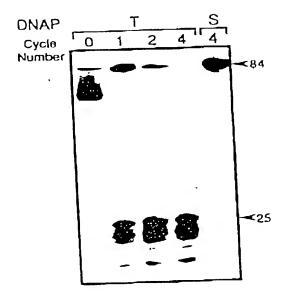
FIGURE 5

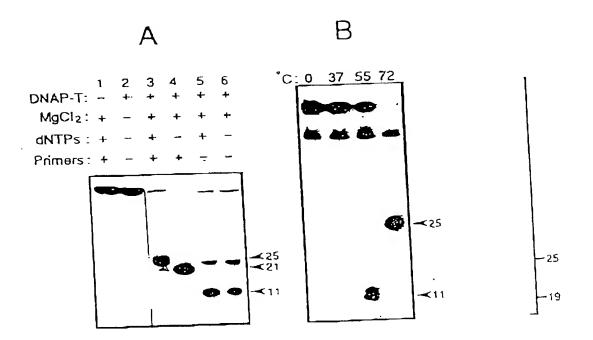


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Septiment of the strand Template Strand Template Strand Strand







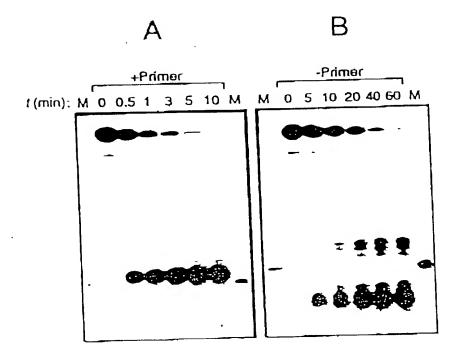


FIGURE 11

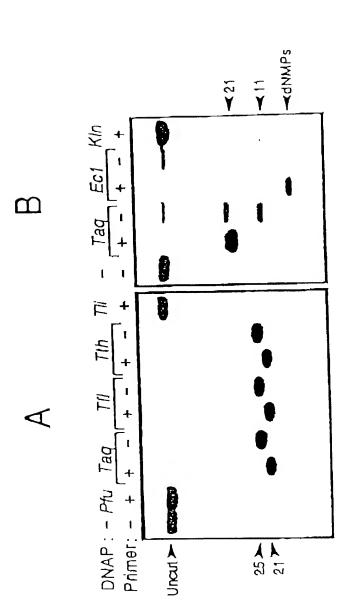
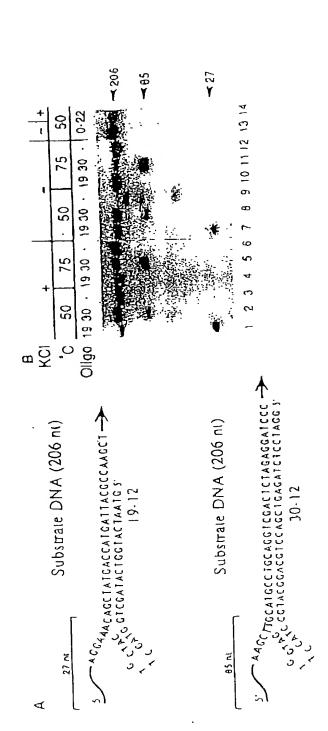


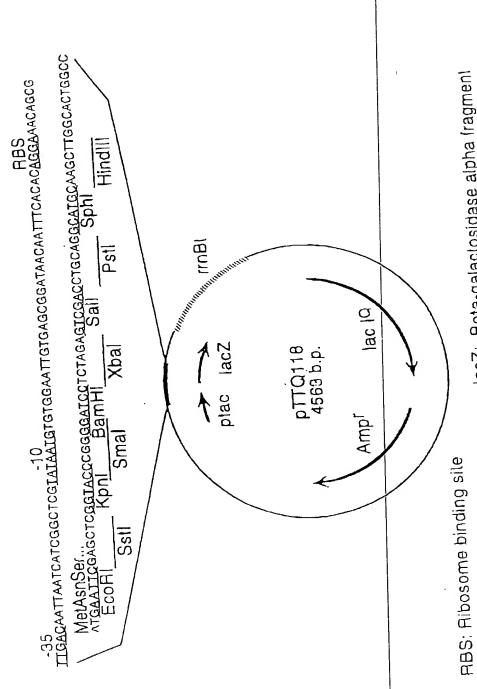
FIGURE 12





*λ*3

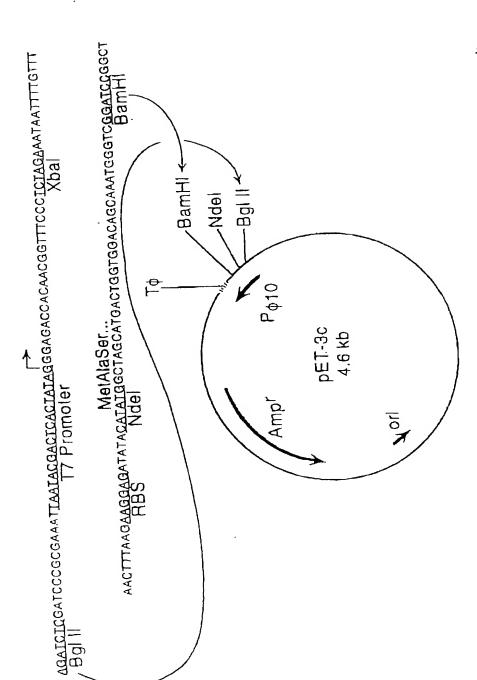
FIGURE 14



lacZ; Beta-galactosidase alpha fragment

rrnBt: E. coli rrnB transcription lerminator ptac: Synthetic tac promoter lac IQ: Lac repressor gene

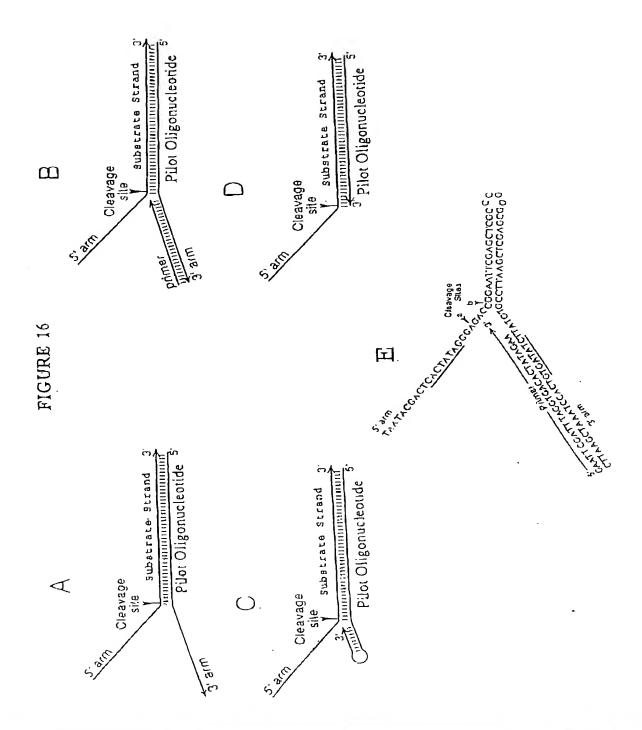
FIGURE 15



ABS: Ribosome binding site

P_{φ10}: Bacteriophage T7 φ10 promoter Tφ: T7 φ Terminator

25



1 2 3 4 5 6 7

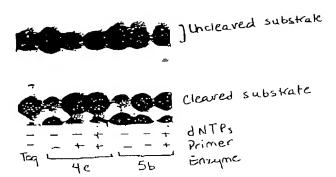
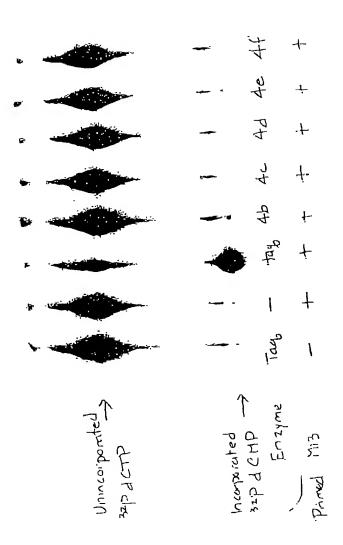


FIGURE 18



A

Sites of Cleavage with a with a gap of 6 BL

STATAGE GALLAGA

CATTLAGGIGACACTATAG

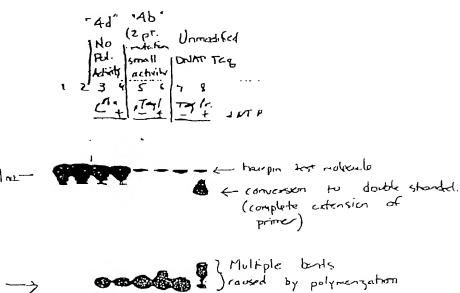
CATTLAGGIGACACTATAG

CTTAAGCTAAATCCACTGTGATATCTTATGTGCCTTA G

3. AGACTAAATCCACTGTGATATCTTATGTGCCTTA G

A

B



desired ->
product
21 nuc.

I some abornant cleavage with 46" because of residual polymerase activity.

A		Predicted cleanage
· Tau	ACGANCAAGCGACACACGIA GTACG C GTACG C A- CATGG A ACG2-CACAGCAGAGAGAGACACACII A CATGG A	Hairpin
7.	CTCCLGTCTCCTCTCTCCCTCTTI A CTACC T Alpha CATGG C CTCCTTGTTCCCTCTCTCCCTGTGTC T	Hairpin
В	Sequence of alpha primer:	
C Ta 3' CAA	S' XCACLOI A GTACC. C GTACC. C CATGO A MORCGACAGRAGAGAACCCACLA? T Cleaved A-Hairpin	S' ECTETTI A OTAC 1 Alpha" CATOC C CIECUIC T- Hairpin
D		
	Top = T-Harpin Bomal : No	tgiC Nia IV Rsa Kpo 3smA

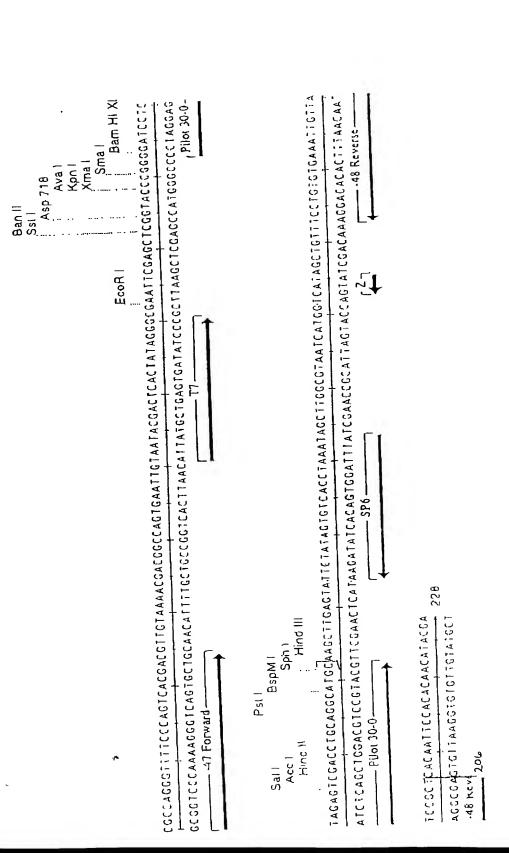
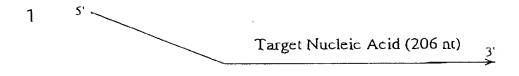
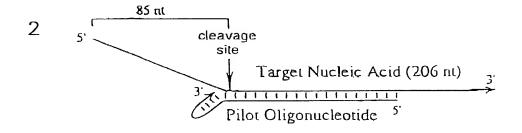


FIGURE 22A





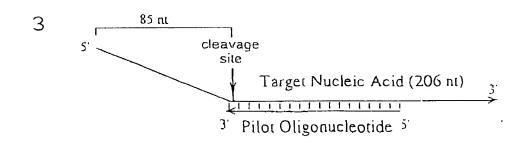
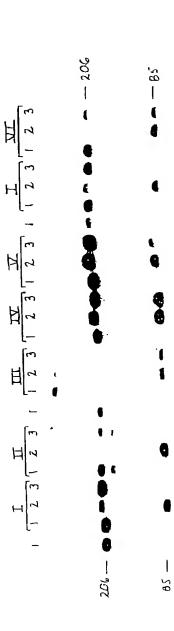
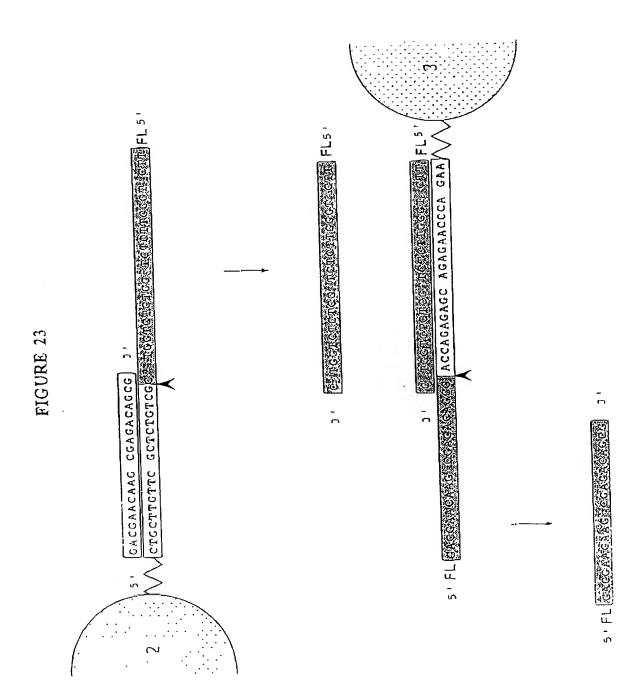


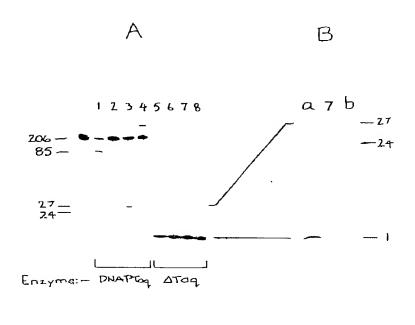
FIGURE 22B



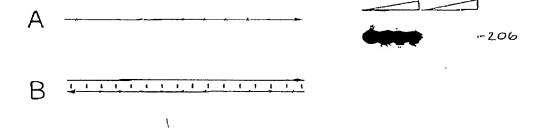


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• -- P(



 $= ^{32}P$

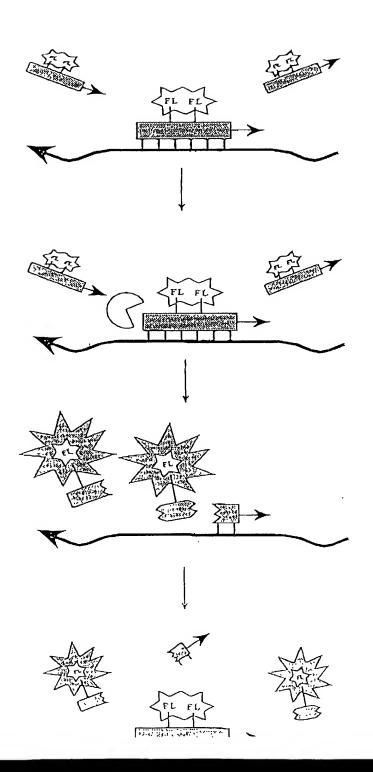
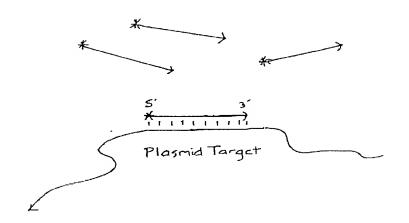
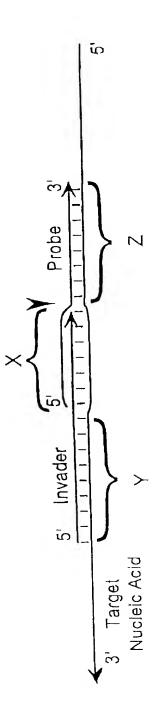


FIGURE 28A



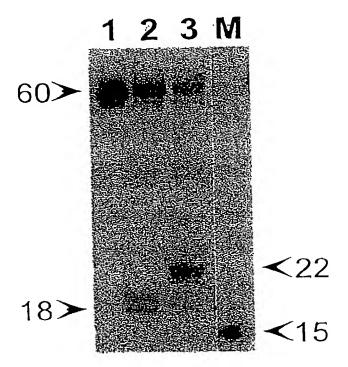
f = 32 P 5' terminal phosphate

FIGURE 28B



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Gracagagegaaca a S-60 Hairpin a Getter a S-60 Hairpin a Getter a S-60 Hairpin a S



AGAAAGGAAGGAAGAAAGCGAAAGG Fluor. Probe Target Nucleic Acid

Target Nucleic Acid

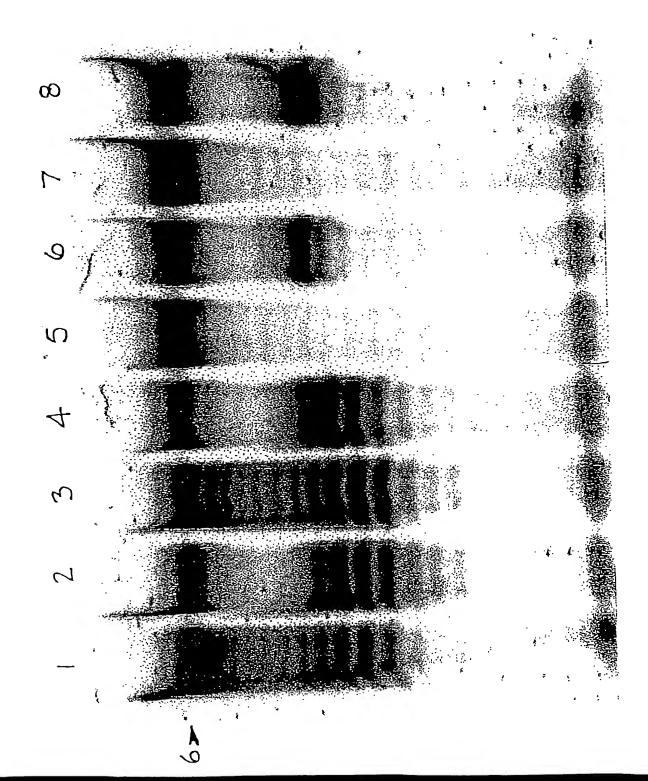
Probe

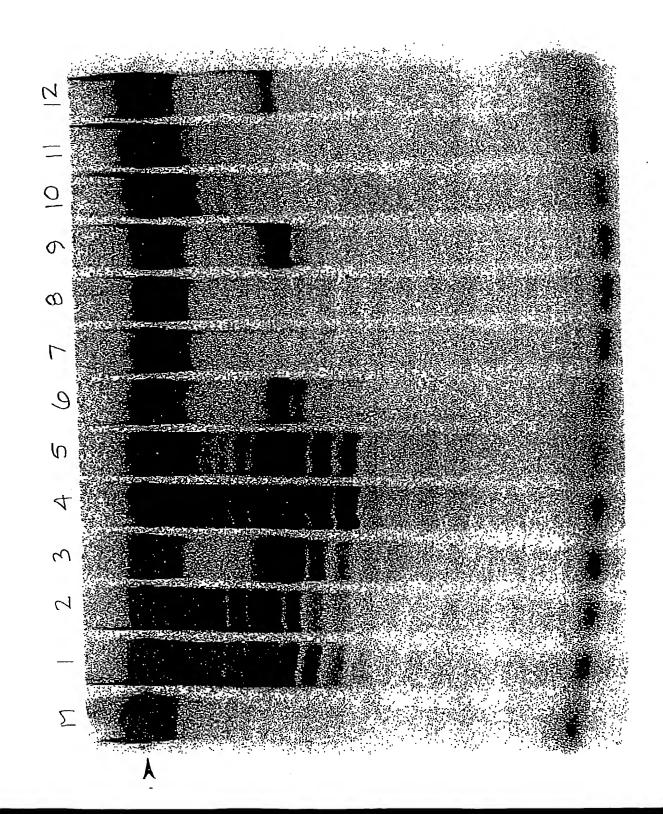
Target Nucleic Acid

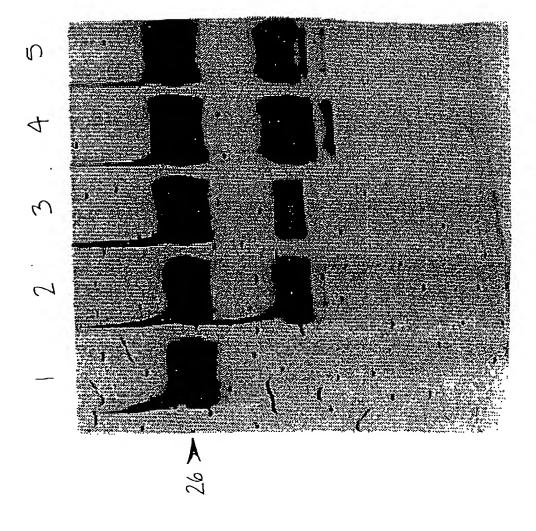
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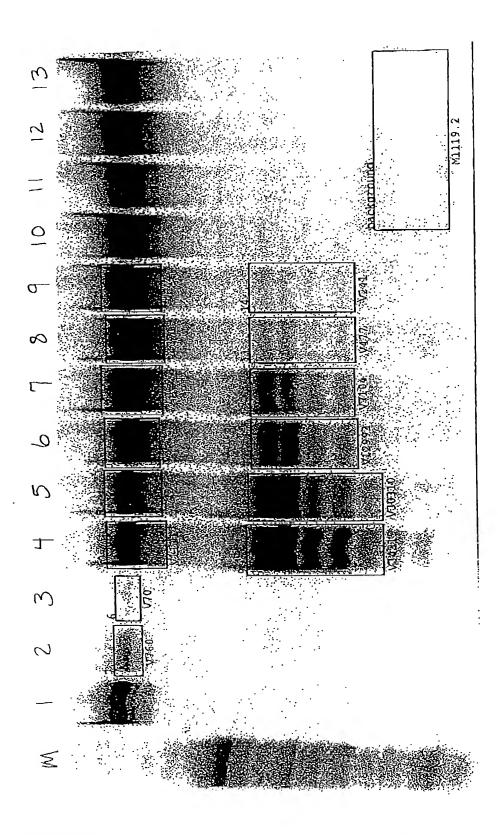
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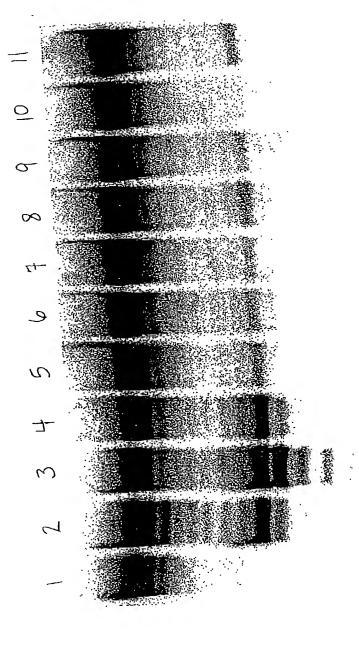
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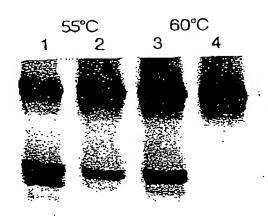


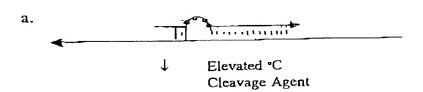


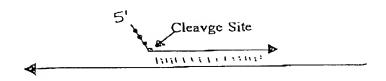


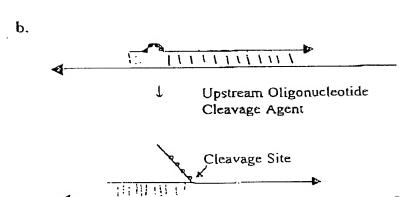






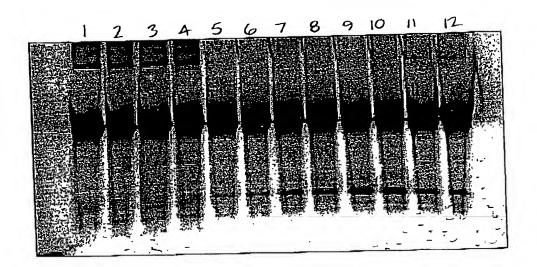


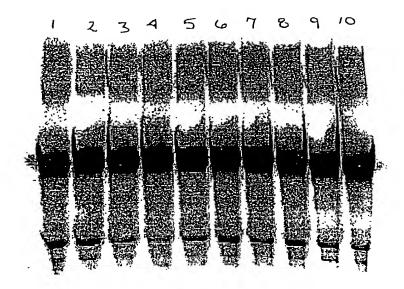


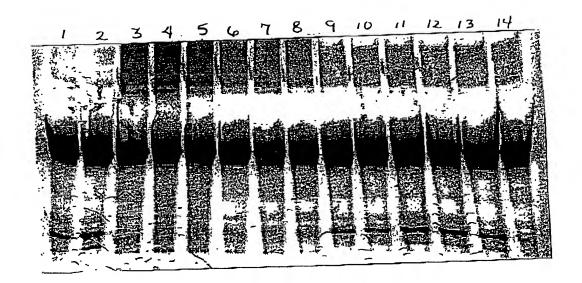


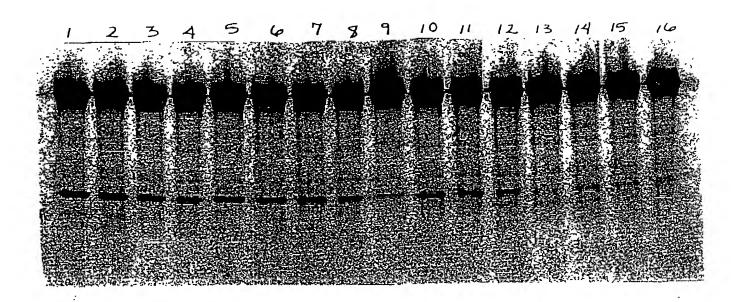
5'-cycoccttcggcgaacgtggcgagaaagga agggaagaagaagggagaaggg-3' - probe ougo cleanage sitc Invasive Cleavage Directing Oligo,

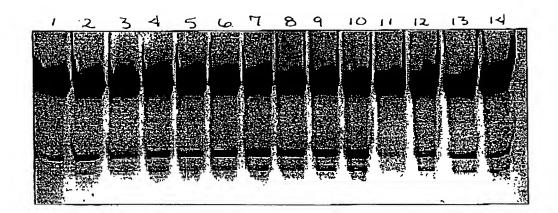
53

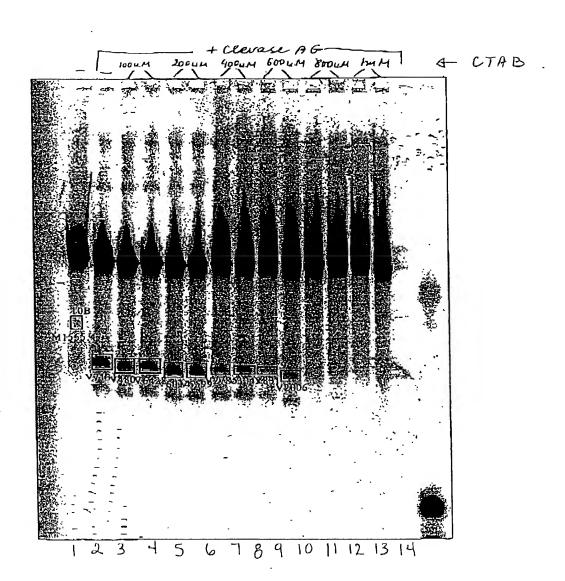


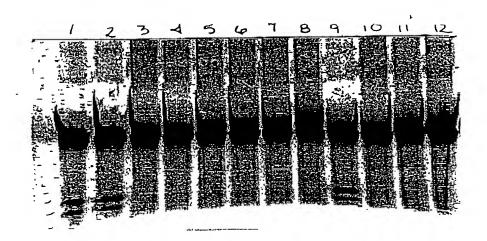


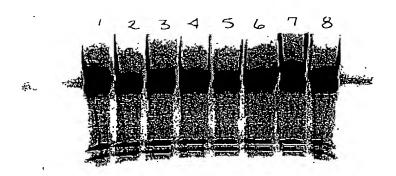


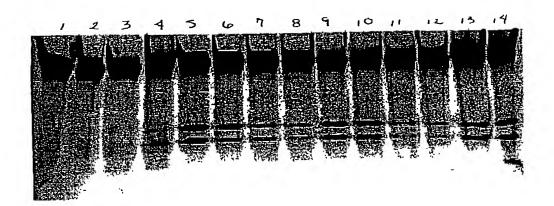


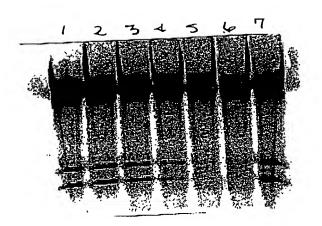


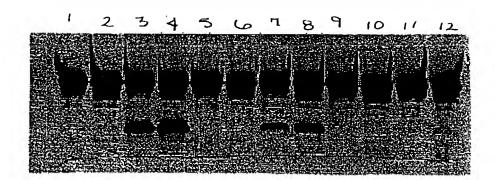


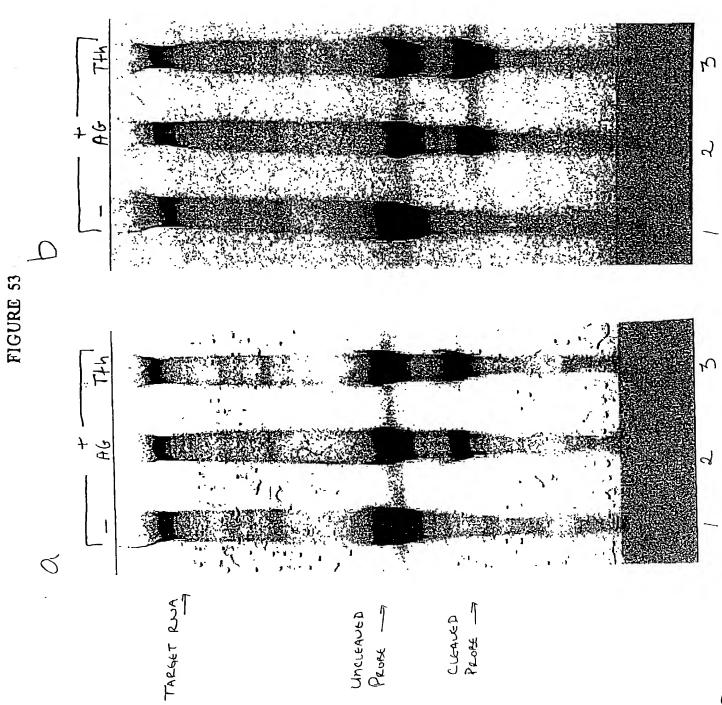




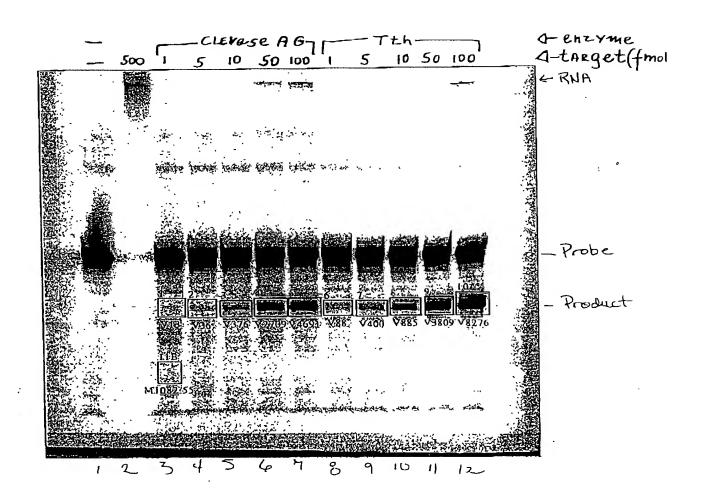


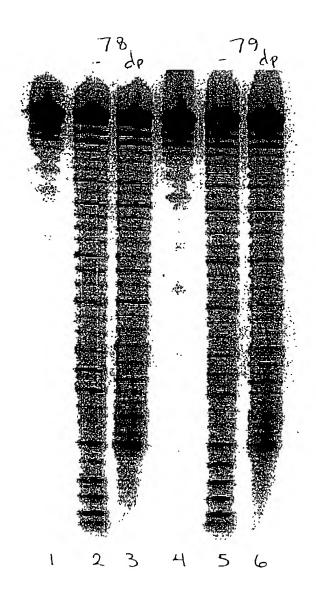






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 0 C10

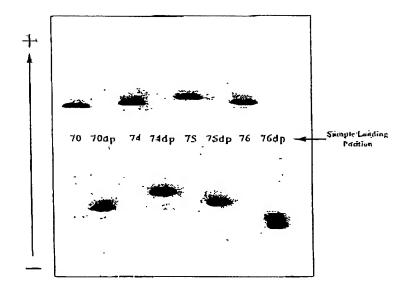
70 (C10 amino T's)
74 (C6 amino T's)

One of the one of

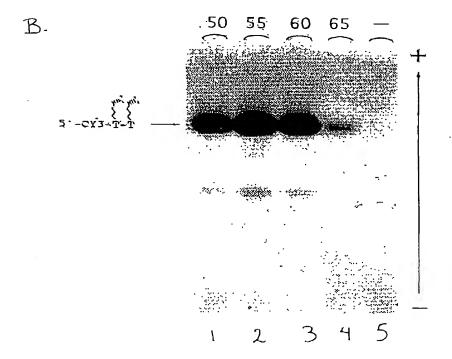
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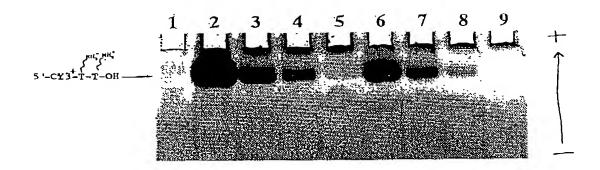
H

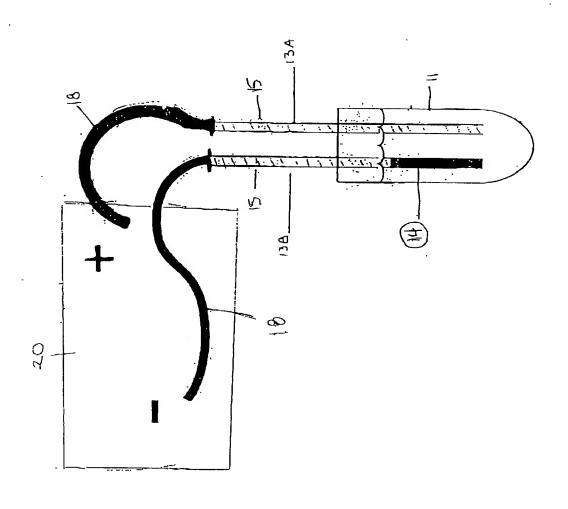
FIGURE 59

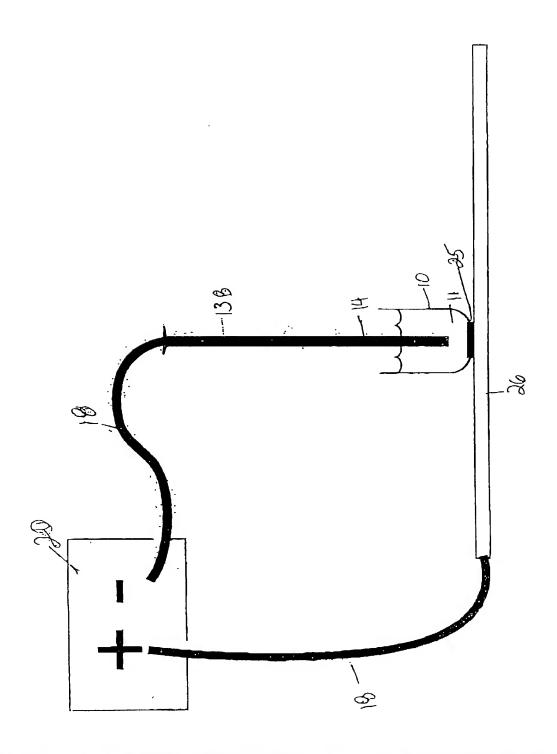


A. Cleavage Site

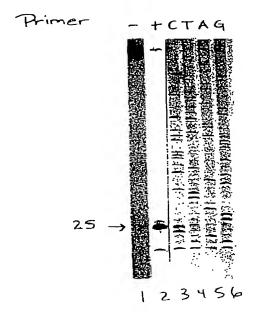








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5' 3' 5' 3'	AGAAAGGAAGGGAAGAAAGCGAAAGG 3' CGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5' AGAAAGGAAGGGAAGGCGAAAGG 3' GCQQQQ GCCGCGAACGTGGCGAGAAAGGAAGGGAAGGAAAGG 3' CGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5'	a
5' 3' 5' 3'	CAGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5' CAGCGCGAACGTGGCGAGAAAGGAAAGCGAAAGG 3' CCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGG 3' CGGCCGCTTGCACCGCTCTTTCCTTCCCTTTCGCTTTCC 5'	b
5' 3' 5'	CAGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5' CAGCCGCGAACGTGCCGAGAAAGGAAAGGGAAGAAAGCGAAAGG 3' GCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGG 3' CGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTCTCCCTTTCC 5'	c
5' 3' 5' 3'	CAGGCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5' CAGGCCGCAACGTGGCGAGAAAGGAAAGGAAAGCGAAAGG 3' CCGGCCGCAACGTGGCGAGAAAGGAAAGGAAAGCGAAAGG 3' CGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCC 5'	d

78

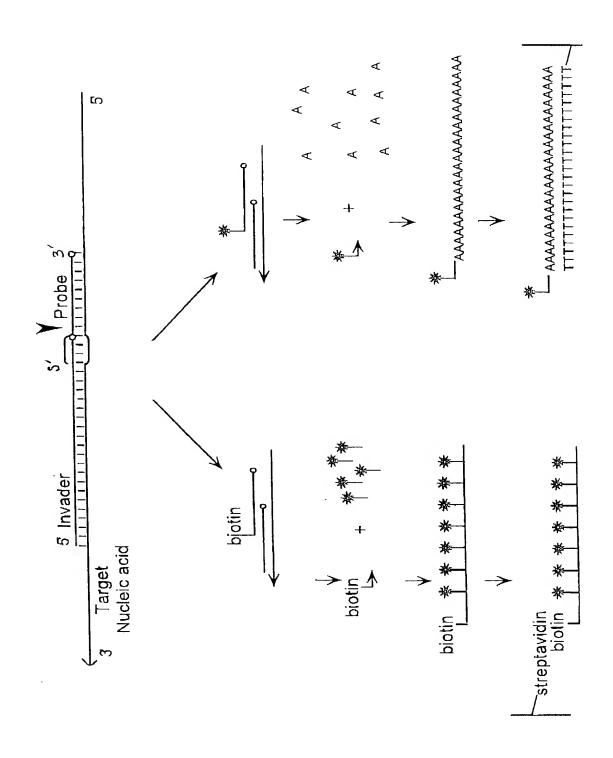
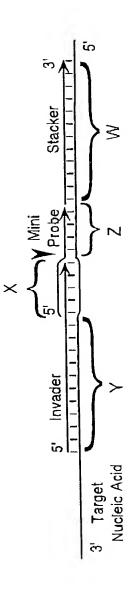
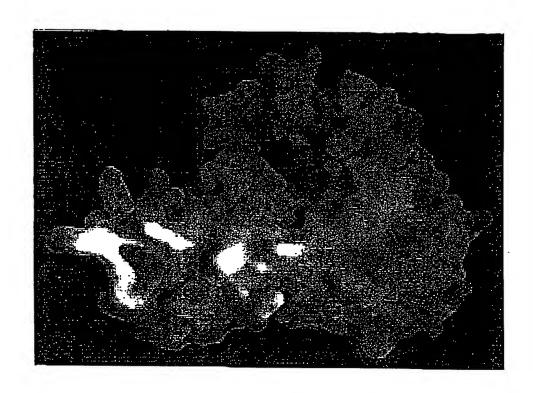


FIGURE 68





	PRO PRO PRO PRO PRO PRO PRO PRO
MJAFENI.P PFUFENI.P HUMFENI.P YSTS10.PR YSTS10.PR YSTRAD2.P YSTRAD2.P MUSXPG.PR XENXPG.PR CELRAD2.F	MJAFEN1. P HUMFEN1. P YST510. PS YST8AD2. P HUMXPG. PF XENXPG. PF CELRAD2. F
70 TSAYNGVEY TSHLSGLEY TSHLMGMEY TS-LMGMEY -SHITGEER -SHVVGFER -AHLLTLFH -AHLLTLFH NSYLVTFFT	14 /SYLTP /TRVNE VKVTK VKVTK VKVSK SDEVTO AATVTG AASVTG
60 SXGR1 SXGR1 FEEGET FEE FEEGET FEEGET FEEGET FEE FEE FEE FEE FEE FEE FEE FEE FEE F	130 EDFEEAAKYAKRV GE LEEARKYAORA GAEOEVEKFTKRU GMEEEVEKFTKRU OL GNGSNDNKRDS OMRHOAMLLKRDS FLKROAJKTERI FLKROAJKAERI FLKROAJKAERI
50 SIRLRDGSPLRN AVRO-GGDVLON AVRO-GGDVLON AVRODGGOLTN AVRDOEGNAVKN AVRDEGNAVKN AVRDKEGNOLKS GVRDRHGNSIEN GVRDSHGNVIEN GGRDRGGNAION GCEAHHOOT	120 A1KK ALEK AOEA TARKLLAL TARKLLAL TTEKLLKT TTEKLLKT TTEKLLKT TTEKLLKT
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30 30 30 30 30 30 30 30 30 30	100 LKEKTRKVRREMKI FKKKELEKRREARI LKSGELAKRSERR LKSGELAKRSERR LKSGELAKRSERR LKSGELAKRSERR LKKOTLVKRRORK LKKOTLVKRRORK LKKOTLAKRRORK LKKOTLAKRRORK SSSAHESKDONEFV
PXNIISF PXNIISF PSAIRENDIN PSAIRENDIN PSAIRKSDIN -PVKRPVKL -CSGRQVSP -CSGRRVSP -CSGRPINP -CSGRPINP	90 VFOGEPPE VFOGEPPO VFOGKPPO VFOGKPPO VFOGCAPS VFOGOAPL VFOGOAPL VFOGOAPL
10 MGVOFGDF 1 MGVP1GE 1 1 MG 1 MG LAKL 1 ADVA MG 1 KGL NA 1 1 SEHV MG V SGL WN 1 LE MG V GGL WKLLE MG V GGL WKLLE MG V GGL WKLLE MG V GGL WKLLE	BO TIHLLEND TPPI TIRMEAGIKPV TIRM-ENGIKPV TIRM-ENGIKPV TCKLLYFGIRPV ICKLLFFRIRPI CCKLLFFRIRPI LCKLLFFRIRPI LCKLLFFRIRPI LCKLLFFRIRPI
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150 160 170 170 150 150 170 170 170 170 170 170 170 170 170 17	SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM-SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM-SEGEADASYMAKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM-SEGEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKISEASCAALAKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKITEAOCAELAKKGKVYAAASEDMDTLCYRTPFLLRHLTFSEAKKIMEAEAOCAELOLNLVDG11TDDSDVFLFGGTK1YKNMFHEKNY-MEAEAOCSKLLELKLVDG1VTDDSDVFLFGGTRYYRNFNNKF-MEAEAOCAVLDLSGT1TDDSD1WLFGARHVYRNFFNKNKF-	180 ASASODYDALL ASASODYDSLI AAATEDMDCLT AAATEDMOCLT AAASEDMOTLC GITDDSDYFL GITDDSDYFL GTITDDSDIWL	190 LYGAPRVVRI LFGSPVLMRI TFGSPVLMRI CYRTPFLLRI CYRTPFLLRI LFGGTRVYRI LFGARHVYRI	SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM MJAFEN1 SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM MJAFEN1 SEGEADASYMAKGSVYASASODYDSLLFGAPRLVRNLTTTGKRKLPGK PFUFEN1 SEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLP10 HUMFEN1 SEAEASCAALAKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLP10 MUSFEN1 TEAEAOCAELLOLNLVDG11TDDSDVFLFGGTK1YKNMFHEKNYVE YSTRAD2 OEAEAOCSKLLELKLVDG1VTDDSD1WLFGARHVYRNFFNKNKFVE HUMXPG. MEAEAOCAVLDLSDGT1TDDSD1WLFGARHVYRNFFNKNKFVE MUSXPG.	SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM MJAFEN1.PRO SEGEADASYMAKKGDVWAVVSODYDALLYGAPRVVRNLTTTKEM MJAFEN1.PRO SEGEADASYMAKGSVYASASODYDSLLFGAPRLVRNLTTTGKRKLPGK PFUFEN1.PRO SEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLP10 HUMFEN1.PRO SEAEASCAALAKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLP10 MUSFEN1.PRO TEAEAOCAELLOLNLVDG11TDDSDVFLFGGTK1YKNMFHEKNYVE YSTRAD2 PRO OEAEAOCAELLOLTDOTSGT1TDDSD1WLFGARHVYRNFFNKNKFVE HUMXPG.PRO MEAEAOCAVLDLSDOTSGT1TDDSD1WLFGARHVYRNFFNKNKFVE MUSXPG.PRO
131 OMCLESOELLOLFGIPYIVAPMEAEAOCAILDLTDOTSGTITDDSDIWLFGARHVYKNFFSONKHVE XENXPG.PRO	LEDLGVTSG'	TITODSDIWL	FGARHVYKI	VFFSQNKHV	MEAEAQCAILDLTDOTSGTITDDSDIWLFGARHVYKNFFSQNKHVE XENXPG.PRO
111 DHVYKTNALLTELGIKVIIAPGOGEAOCARLEDLGVTSGCITTDFOYFLFGGKNLYRFDFTAGT CELRADZ.PRO		SITTOFOYFL	FGGKNLYRI	FDFTAGT	GOGEAQCARLEDLGVTSGCITTDFDYFLFGGKNLYRFDFTAGT CELRADZ.PRO

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JAFEN1. PRO FUFEN1. PRO UMFEN1. PRO USFEN1. PRO ST510. PRO STRAD2. PRO UMXPG. PRO ELRAD2. PRO	JAFEN1.PRO FUFEN1.PRO UMFEN1.PRO USFEN1.PRO ST510.PRO STAD2.PRO UMXPG.PRO USXPG.PRO ELRAD2.PRO
350 DFSEE H OFSEE H OFSEE H GWPHE Y GWNRT H GWNRT H GWNRT K SYVRE C	420 420
340 GIJKFLVDENDF GILKFLCOEHDF ELIKFMCGEKOF ELIEYLCODKKF ELROFLMATOLGV KIREFCORYFGV OIREFCESRFGV OPHVILDRFAS\	410
330 SLSLKLPDKE SLSLKLPDKE NLVWROPOEE ELKWSEPNEE ELKWSPPKEK PFVWGVPOLO SFLWGKPOLO SFLWGKPOLO SFLWGKPOLO SFLWGKPOLO	400
320 T0NY T0NY V0PESV V0PESV 	390
310 310 	380 7
300 KEPKV LNPPV LEPEV LDPEV VNNE I (LODD VGK- I 1LPSE RTLOL TPG RKLOL TPG RKLOL TPG	370
290 EVEYYDE IKR IF SDVOLYA I KEFF ENWLHKEAHOLF ENWLHKEAHO	360 XHVDKLYNLIA NGLERLKKAI- SGVKRLSKSRO SGVKRLSKSRO SGVKRLSKSRO SGVKRLSKSRO SGVKRLSKSRO EVLLPVIODMH ESLFPVLKOLD ESLFPVLKOLD ESLFPVLKOLD ESLFPVLKOLD
251 LKK 265 QKO 269 PVP 272 KIP 265 QET 268 KND 268 KVA 194	300 RVK 314 RVK 320 R LR 318 R LR 335 KSD 337 RTN 336 KTD 336 KTD 336 KTD

FIGURE 70-D

	FEN1. PRO FEN1. PRO FEN1. PRO FEN1. PRO S10. PRO RAD13. PRO XPG. PRO XPG. PRO XPG. PRO XPG. PRO XPG. PRO	FEN1 PRO FEN1. PRO FEN1. PRO 510 PRO RAD13. PRO XPG. PRO XPG. PRO XPG. PRO XPG. PRO
	M H L L A H L L A H L L A H L L A H L L L L	MUA HUM YST YST SPD CEL
490	GSLS GSLS PK-T FK-T GEGSSLM GEGSSVM	56'- NKTKOKTL KSGKOSTL KAKTGAAG KAKTGAAG KKAKTGGAG KKAKTGGAG KKAKTGRAKKK- TRKLRRARG RRLKSMK- TKSKTMKE KPYPTOVI
480		550
470	18EE 10ADAD, SFLGDPYCSE, SFLGDPYCSE, SFLGDFYCSE, SFLGD	540
460		530 DKKLNTSKRI ISIENLPRKT SSSSOSDDGE NKVESSSSD
450		520
0hh		510
430 1		500 SAKREPEPKGST- SAKREPEPKGPA- SACAAAKRAOE- CCLAAAAKRAOE- CCLAAAKRAOE- SAKMMASKNSSDS VORRTAAKEPKTS VORRTAAKEPKTS VORRTAAKEPKTS
	314 - 348 - 348 - 357 K 357 K 359 S 106 E 106 E 103 E	314 3274 3274 3522 S 3544



PEUFENI, PRO HUMFENI, PRO MUSFENI PRO YST510, PRO YSTRAD2, PRO SPORAD13, PRO HUMXPG, PRO MUSXPG, PRO XENXPG, PRO

.22 DAWFKZ .35 ESWFKR .75 KFKRGK 77 VTKGRR 90 ---RKM 83 SKRRKK 46 RKRKTZ 38 RRKKTZ 23 TVKRK